

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Sandra M. Cooke

GENERAL INFORMATION:

Name:	Owl's Head Alloys, Incorporated
Address:	187 Mitch McConnell Drive Bowling Green, Kentucky 42101
Date application received:	August 14, 2007
SIC/Source description:	3341, Secondary Aluminum
Source ID:	21-227-00135
Agency Interest:	40313
Activity:	APE20070001
Permit:	V-04-058 R2

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
<input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input checked="" type="checkbox"/> Other (Minor Revision under 401 KAR 52:020)
<input type="checkbox"/> Netted out of PSD/NSR <input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)		

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

The addition of the second scrap processor had the potential to increase the fugitive particulate emissions by less than 10 tons per year. However, the addition of the 90 + % efficient bag house, and requirement that it always be used when scrap is processed, will actually reduce the overall emissions from the scrap processing yard.

SOURCE DESCRIPTION:

Owls Head Alloys, Incorporated, operates a secondary aluminum scrap processing plant in Bowling Green Kentucky.

MINOR PERMIT REVISION 2: ADDITION OF SCRAP PROCESSING EQUIPMENT

On June 18, 2007, this source requested a change to their permit to allow the construction of a low-speed pre-ripper and an air knife to further break apart scrap materials for the removal of non-aluminum elements in order to improve the chemistry of their final product. The request also proposed the construction of a vacuum hood that would extend over the new equipment as well as the bale breaker added under Revision 1 of the permit. This hood would be vented through a baghouse filtration system. The request was submitted as a possible 502 (b) (10) change, but was determined to require a minor permit revision review.

Investigation of the pre-ripper shows that it is another low speed, high torque device much like the bale breaker added in first revision to this permit and would not be subject to the requirement of a shredder set forth under 40 CFR 63, Subpart RRR. In order to maintain a non-shredder status, the speed of the equipment must never increase above the 55-rpm setting cited in the application. The air knife also removes materials not compatible with the aluminum melting process. Since the new equipment is located out of doors, it will be subject to the fugitives regulation, 401 KAR 63:010. The voluntary addition of a hood and baghouse should actually decrease particulate release from the site since the original bale breaker will now be covered by this control device.